

Description and Operation

Overview

The **BCM (body control module)** monitors the tire pressure in the 4 road tires with tire pressure sensors that communicate the tire pressure status via radio signals to the **BCM**. The tire pressure sensors are battery operated and mounted to the valve stems. All of the controlling software for the **TPMS (tire pressure monitoring system)** is contained in the **BCM**. The **IPC (instrument panel cluster)** illuminates the **TPMS** warning indicator and the message center displays a message when a fault is present or when the tire pressure falls below the low pressure limit.

NOTE: After changing the wheels, the sensors must be re-learned.

NOTE: The system learns automatically the sensors between nine to twelve minutes while driving.

TPMS Sensor

General

TPMS Valve Mounted Snap-In Sensor



E183902

This two piece snap-in valve mounted sensor contains two separate parts (sensor and valve stem) which are screwed together and can be replaced separately.

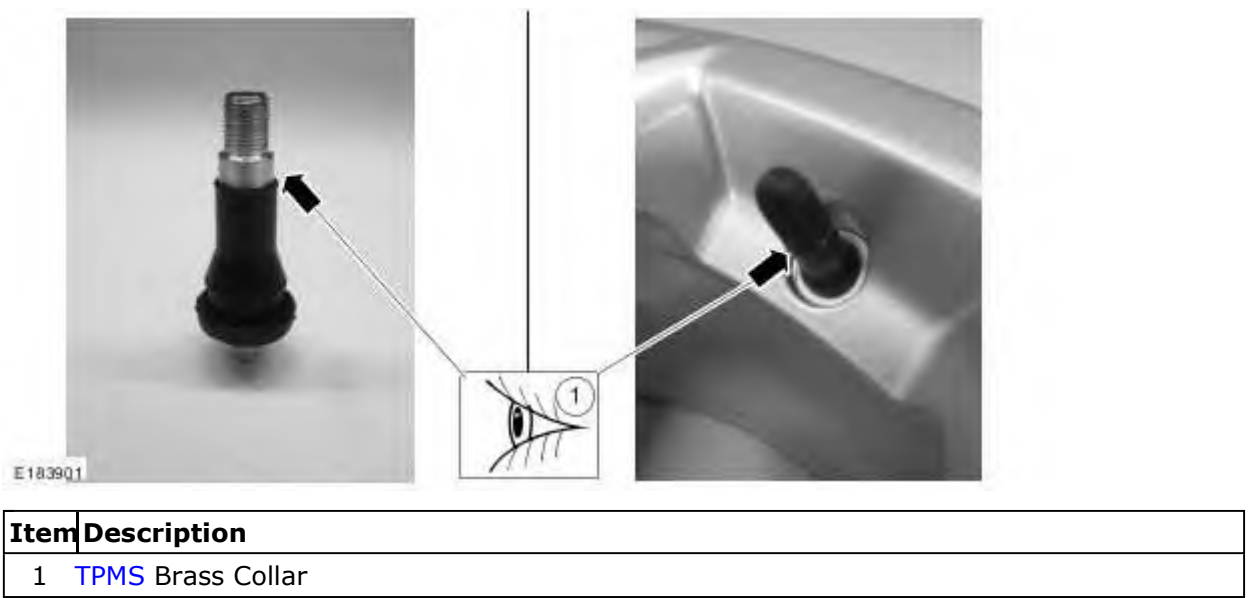
The sensor is referred to as "snap-in" because it has a traditional rubber valve stem and not a hex nut fastener.

The sensor is mounted to the valve by using a Torx screw. When the valve needs to be replaced the sensor can be removed and a new valve kit can be installed. The valve kit consists of a new valve, valve cap and Torx screw.

TPMS Sensor Identification

TPMS type valves have a different design compared to standard type valves. The identification is possible without removing the tire.

TPMS Valve Mounted Snap-In Sensor



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